

## Product datasheet for RC233320

### IRF3 (NM\_001197128) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IRF3 (NM\_001197128) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IRF3  
**Synonyms:** IIAE7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233320 representing NM\_001197128  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCTGGCTGTAGCCCCCTGAGCCCTGCCCTCAGC  
 CCCTGCGGAGCCCCAGCTTGGACAATCCCCTCCCTTCCCAAACCTGGGGCCCTCTGAGAACCCACTGAA  
 GCGGCTGTTGGTCCGGGGGAAGATCTGATTACCTTCACGGAAGGAAGCGGACGCTCACCACGCTATGCC  
 CTCTGGTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAAGAGGCTCGTGATGGTCAAGG  
 TTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCCGGTAGGGGTGCCTCCTCCCTGGAGAATAC  
 TGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGCCTACCTGCAG  
 GACTTGGTGGAGGCATGGATTTCCAGGGCCCTGGGGAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233320 representing NM\_001197128  
 Red=Cloning site Green=Tags(s)  
 MVLAPLPDPGPPSLAVAPEPCPQPLRSPSLDNPTFPNLPSENPLKRLLVPGEDLITFTEGSGRSPRYA  
 LWFVGVGQDQVPTKRLVMVKVVPTCLRALVEMARVGGASSENTVDLHISNSHPLSLTSDQYKAYLQ  
 DLVEGMDFQGPGES

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_001197128

**ORF Size:** 462 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001197128.2](#)

**RefSeq Size:** 900 bp

**RefSeq ORF:** 465 bp

**Locus ID:** 3661

**UniProt ID:** [Q14653](#)

**Cytogenetics:** 19q13.33

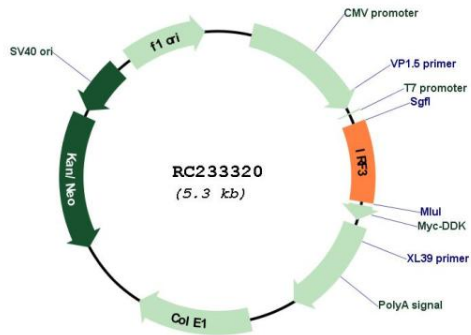
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

**MW:** 17.2 kDa

**Gene Summary:** This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. The protein plays an important role in the innate immune response against DNA and RNA viruses. Mutations in this gene are associated with Encephalopathy, acute, infection-induced, herpes-specific, 7. [provided by RefSeq, Sep 2020]

**Product images:**



Circular map for RC233320